

ABSTRACT

A cryogenic receiver front-end includes a heat sink having a mounting surface and a plurality of fins, a cryocooler mounted to the mounting surface of the heat sink, a heat rejector surrounding the cryocooler, the heat rejector including a plurality of pliable c-shaped recesses therein, and a plurality of heat pipes. Each heat pipe has first and second ends, the first ends of the plurality of heat pipes are disposed in respective c-shaped recesses of the heat rejector. A working fluid is contained inside the heat pipes. The second ends of the plurality of heat pipes are thermally coupled to the heat sink. A weather resistant enclosure unit is mounted to the heat sink and encloses the components of the cryogenic receiver front-end.

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